

ANT/PIE/02

0038

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Subject





2
N (T)

(P29)

etc.

295/70-75 M foliation

Each dr. grey, weathers to
medium brown. See sample.

Thin, smooth, massive (foliated)

rock, but locally shows

nodules, especially near of

thin grey ~~color~~ (weathering)

along surface rock. Foliation

is also dr. sh. but staining

to be stronger.

Both Q. foliated, brown, coarse

Sample 0096 ^{medium} _{fine} quartz

0097 fine " "

dr. brown & nodules not thicker
than 15 cm.

Foliation only visible on hold

to medium brown weathering

surfaces as streaks of ^{and feldspar} darker

(pyroxene) material in

(foliated) material. Also
bands of ~~quartz~~ other
materials in streaky, laminated
rock and veins of Q
(foliated) sub/foliated.

Quartz

Rocks rather strongly jointed. ⁴⁰
Prominent ^{open} jointing 105/70 M.
(\perp foliation) but also various
other systems.

(P30) c/c

same rock as at Pa
thinner jointing, mostly open

Specimen 2 cm - 2/3 mtr
3350
320/85 M.

250-255
foliation 315-320/80-15

PBI

PI 3 laminae foliation caused by
interstratified laminae of Fe Mg minerals
plates. Laminae of Q (thicker than
than of Fe Mg minerals). Between these
laminated, platy minerals occurs
caliche which forms bulk of rock.

Q plates locally developed in hot
period. Q ^{up to 15 cm thick} ~~very~~ slightly wavy or elongated
patches in in Q. These are
parallel or almost // to foliation.
Also bands up to 1 cm thick of
Fe Mg rich with rock, generally
parallel or sub // to foliation. has
foliation ²⁶⁰
325/60

locally discordant. All Fe has run
on brownish weathering surface

Sample 0098 dk medium brown

medium grey & dk medium
green green, the latter one
occurs as band (wavy cut)
and appears to be free cement
and a // foliation.

~~PI 5~~
~~Sample 0099~~

PI 5 20 cm thick inclusion

in foliat. snells abruptly & ter-
minated ~~at~~ laterally and w/ 2 diam.

sub parallel to foliation, but . thus

are discordant. β veins in the foliation
under acute angle.

Sample 0099 xenolith.

Sample 0100

W F

~~Host rock~~
Quartz vein.

foliation 230
295/65-70

Rocks collected by Michel Morgan
from Tuntup Peaks on 12. 2. 1975.

Southern peak with cairn on top

Sample 0101 typical rock from
area. (Pyroxene) quartz, feldsp. gneiss.
Medium grained with intertent
laminae or bands of slightly coarser
Q. Medium brown. Foliation
obscure in hand sample.

Sample 0102 typical rock from area.
(Pyroxene) Q, feldsp. gneiss. with
persistent laminae or bands of
slightly coarser Q. Medium brown
Foliation obscure in hand sample.

Sample 0103 typical rock of
thick dark band (sill?) between
jaddle and S. peak running //
to foliation (crude). Biot, Q, px.
feldsp. gneiss. Medium grained with
some coarse pyroxene porphyroblasts
No foliation at hand sample scale.
Medium gneiss.

Sample 0104 Locality as 0103.
Medium to coarse gr. biot., Q,
pyrox., feldsp. gneiss. No foliat.
at hand sample scale. Medium
grey.

Sample 0105. Uncommon rock type.
could be even an eclogite. Coarse
stained biot., Q, feldsp. gneiss.
Foliation rather well developed
at hand sample scale as result
of in persistent binnings of biotite
light to medium grey.

Sample 0106 Uncommon rock type.
Q, feldsp. gneiss with perphyroblastic
garnet and minor fine gr. monzonite.
Garnet are weathered brittle, to stained
(rust, brown) At hand sample scale
the rock shows moderately to well
developed foliation, probably fracture
cleavage.

Sample 0107 Sulphide are red
near Mawson (see Trail et al)

Sample 0108 as above.

Glenn's Station Monte Island

R M 1

2.48 mtr 211 M from station
Ting station 0.535 mtr from station

5844.40

At Ting station 88.1 mtr from station

Ting station 136 mtr.

6101 Monitor ing 236.8

620 " 57502.1

27.2.1975.

Cases.

All PC rocks.

Common rocks: light coloured to whitish (garnet) quartz feldspar gneiss, with or without dark to blackish pyroxene ^(garnet) mica, & quartz feldspar gneiss. The latter rock type occurs in bands (often strongly folded: a-sym. isoclinal, recumbent) on 10-100 cm scale. As result of this folding, bands are not persistent but broken off and blocks of it occur at places apparently irregularly in the lighter coloured rocks.

The more rarely is a light to (medium Crn crystalline) rock which contains cordierite.

Cordierite occurs together with garnet which should be noted

can be used for determination of
pressure P & T of metamorphism.

MACQUARIE ISLAND

7.3.1974.

Amare Stat.

(P32) de well layered light red-green
basalt.

Sample 109
layering at cliff $\frac{240}{210/45}$
at cl. $\frac{165}{135/40}$.

nearby:

f. ex. small interlayered with
perphyritic basalt and
limestone.

Sample 110 part basalt
" " " " limestone.
layering $\frac{205}{175/60}$

fracturing $\frac{300-120}{270-90} / \downarrow$

more major fault by $\frac{160}{130/75-80}$
Photo 14 NY brecciated basalt.
PK 2 gentoo penguins

(P33) etc.

contact crse gr. gabbro &
~~basalt~~ basalt / dolerite.

Photo 18 NY.

Must be very late intrusive (dyke)

Sample 112 very intrusive (dolerite)

Sample 113 gabbro ~~sample~~

many types of gabbro

pegmatite

layered (dark and light col. minerals)

oriented crystals

some blds are ~~leucocratic~~ leucocratic
gabbro.

Sample 114 diorite with oriented
crystals

(P34) etc dolerite

Sample 115

massive appearance.

(35) c/c Eagle Caves.

clustered, homogeneous dolomite
with some pyrite scattered

Sample 116

late dike
intrusion?

(P36) just over spur
c/c serpentinized rock
very weathered
on red basalt

(P37) next spur, rock
c/c along track
very distorted & fractured
basalt

under m

Sat 8-3-1975.

(P38) on beach just below
hut At Bauer Bay

brecciated lava
slightly

moderately weathered.

spiky, rough outcrops.

Sample 118.

67 further S

75 cm thick layer of lava

between massive brecciated lava

²⁷⁰
24c/30

Photo Neil Young. 4-7

(P39) o/c. on feathered (hillocks)
just S of Nansen Pt.

cryst lava slightly porphyritic.

Sample 119.

Amegdaloidal, uolites.

perphyritic.

(P40) scree coming down from cliff

Amagdaloidal dense fine
basalt scoriae

Sample 120

(P41) same as P40
but much more fragmented

brecciated lava.

fragments few to 10 cm diam.

(P42) old hillsides

amagdaloidal basaltic brecciated
lava.

Sample 121

(P43) Air Ph.
old brecciated lava

Air Ph.

(P44) c/c brecciated lava
+ tuff forming layers between
lava.

24°
210/60

Sample 122 lava
11 123 tuff.

(P45) c/c Green Gorge.
brecciated and pillow
basalt lava/dolerite ↓
Sample 124 Photo NY
at pillows sheared material
~~between~~ at interstices.

300 yds N 130/20-30
beddy photo NY. 25

(P46) c/c Just N 2nd Rosal
Rocherrie
Pillow basalt lava
Sample 125

(P47) cl well bedded sequence
of volcanics, tuffs
bedding $140^{\circ}/110^{\circ}/10^{\circ}$
bedding thin layers from massive to
15 cm.

densely jointed.
many fault zones with
breccia & q.
Sample 126

further N at N side
of valley cl of similar
bedded volcanics
dipping S 45° $180^{\circ}/45^{\circ}$
210

(P48) cl
bedded volcanics
also green dark basalt?
and lots of (v. or. streams
rich
bedding S 30° .
Sample 127 cl or. volc.

(119) 119

Goldense rock intrusion
about 1 mi N of South Pass
Sample 128

(P5) c/c Nuggets

Pillar lava
Sample 129

(P5) c/c just N of pillar
volcanics
bedded volcanics.
Sample 130

bedding: N/40-35.

Photo 25.



